

Abstract of the Disclosure

Noise of a low frequency band, generated inside a logic circuit, is remarkably reduced. A semiconductor integrated circuit device is provided with: a high voltage supply circuit generating, from a high voltage external power supply that is externally input, a high voltage internal power supply having a certain voltage level; and a low voltage supply circuit generating, from a low voltage external power supply that is externally input, a low voltage internal power supply having a certain voltage level. In inputting/outputting a signal between a logic circuit block and an I/O unit, a signal level is shifted through a level shifter unit. Since the logic circuit block is operated by the high voltage internal power supply and the low voltage internal power supply, the inductance in the semiconductor integrated circuit device is not subjected directly to DC fluctuation in consumed currents. Therefore, the characteristic impedance of power supply becomes equivalently smaller, thereby reducing low frequency noise.